| Inde | ex of ( | Claims |  |
|------|---------|--------|--|
|      |         |        |  |

Application No.

10/665,131

Examiner

Khoi H Tran

Applicant(s)

REASONER ET AL.

Art Unit

3651

| √ | Rejected |
|---|----------|
| = | Allowed  |

| - | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

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| ı | Interference | ( |

| Α | Appeal   |
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| 0 | Objected |

|          |  | ш            |          |              |    |          |                |          | l            |                   |              |
|----------|--|--------------|----------|--------------|----|----------|----------------|----------|--------------|-------------------|--------------|
|          |  |              |          |              |    | _        |                |          |              |                   | $\neg$       |
| Cla      | iim  | Date         |          |              |    |          |                |          | _            |                   |              |
|          | =  | _            |          |              | 1  | -        |                |          |              |                   | - 1          |
| Final    | Original   | 7/12/04      |          |              | l  | -        |                |          |              |                   |              |
| :⊱       | rig  | 12           |          |              | l  |          |                |          |              |                   |              |
| -        | Ō  | 7            |          | l            |    |          |                |          |              |                   |              |
| ·        | <del>                                     </del> | <del>,</del> | _        |              | ╁  | $\dashv$ | _              |          | Н            | $\dashv$          |              |
| <b></b>  |  | 1            | _        |              | ╀  | -        |                |          |              | -                 |              |
|          | 2  | 1            | _        | _            | ╀  |          |                |          | _            | $\dashv$          |              |
|          | 1<br>2<br>3<br>4<br>5<br>6                       | 1            |          | _            | 1  | _        |                |          |              |                   | _            |
|          | 4  | 1            |          |              | L  | _        |                |          |              |                   |              |
| l        | 5  | ob           |          |              | L  |          |                |          |              |                   |              |
|          | 6  | 1            |          |              | ı  |          |                |          |              |                   | !            |
|          | 7  | 1            |          |              | T  |          |                | Γ        |              |                   |              |
|          | 8  | 7            |          |              | Τ  |          |                |          |              |                   |              |
|          | 9  | ob           |          | Г            | Ť  |          |                |          |              |                   |              |
|          | 10   | ob           |          | t            | t  | _        |                |          |              |                   | 一            |
| $\vdash$ | 11   | ob           | $\vdash$ | _            | t  |          |                |          | -            | Н                 | $\neg$       |
|          | 12   | 1            | $\vdash$ | $\vdash$     | +  | _        |                |          |              | H                 | $\dashv$     |
| -        | 12   | 7            | $\vdash$ | <del> </del> | +  | _        | $\vdash$       | $\vdash$ | -            | $\vdash$          | $\dashv$     |
| -        | 12<br>13<br>14                                   | 1            | ⊢        | ├            | +  |          | <u> </u>       |          | $\vdash$     | Н                 | -            |
| -        | 14   | -            |          | $\vdash$     | +  |          |                |          | $\vdash$     | $\vdash$          | $\dashv$     |
|          | 15<br>16   | ob           | -        | $\vdash$     | +  |          | -              | ├        | -            |                   |              |
| <u></u>  | 16   | 1            | _        |              | 1  |          | <u> </u>       | $\vdash$ | -            | Щ                 | Ш            |
| <u> </u> | 17   |              |          | _            | 1  |          | <u> </u>       |          | <u>Ļ</u>     |                   | _            |
| <u></u>  | 18<br>19   | L            | 乚        | L            | 1  |          | _              | _        | ļ            |                   |              |
|          | 19   | <u> </u>     | <u> </u> | ┖            | 1  |          | <u></u>        |          | _            | $ldsymbol{f eta}$ |              |
| L        | 20   | L            | _        | L            | 1  |          |                |          |              |                   |              |
| L        | 21   | <u> </u>     |          |              | 1  | _        | _              |          | L            |                   |              |
|          | 22   |              |          |              | 1  |          |                |          |              |                   |              |
|          | 23<br>24   |              |          |              |    |          |                |          |              |                   |              |
|          | 24   | Γ            |          |              | I  |          |                |          |              |                   | Ш            |
|          | 25   | 1            | Γ        |              | I  |          |                |          |              |                   |              |
|          | 26<br>27   |              | П        | Т            | 7  |          |                |          | П            |                   |              |
|          | 27   |              | 1        | Τ            | T  |          |                | Π        | Т            |                   |              |
|          | 28   | 1            | T        | 1            | 1  | _        |                | Τ        | $\top$       |                   |              |
|          | 29   | $\top$       | T        | T            | †  |          | T              |          | T            | <b>—</b>          | $\Box$       |
| $\vdash$ | 30   | T            | T        | †-           | 7  |          | T              |          | T            | 1                 | Н            |
|          | 31   |              | 1        | 1            | †  |          | t              | 1        | T            |                   | Ħ            |
|          | 31<br>32   | H            | ╁        | +            | +  |          | $\vdash$       | -        | ╁╴           | ╁                 | Н            |
| -        | 33   | +-           | ╁        | +            | +  | -        | $\vdash$       | +        | +            | $\vdash$          | Н            |
| 1        | 34   | +            | +        | +            | +  |          | +              | ╁        | +            | +-                | $\vdash$     |
|          | 35   | +            | +        | +-           | +  |          | ╁╌             | $\vdash$ | +            | +-                | Н            |
| -        | 30   | +            | +-       | +            | +  |          | $\vdash$       | ┿        | <del> </del> | 1                 | Н            |
|          | 36<br>37   | +-           | ╀        | +            | +  |          | ╀              | +-       | ╁            | ╁                 | -            |
|          | 31   | -            | +-       | ╀            | 4  |          | ┾┈             | +        | +            | 1                 | $\vdash$     |
|          | 38   | -            | ┿        | +            | 4  | _        | <del> </del> - |          | ╀            | $\vdash$          | H            |
|          | 39   | -            | ╄-       | $\perp$      | 4  |          | ₩              | ╄        | ╀-           | ↓_                | <u> </u>     |
| <u> </u> | 40   | <del> </del> | 1_       | ╀            | 4  |          |                |          | ╄            | _                 | $oxed{oxed}$ |
|          | 41   | $\perp$      | $\perp$  | $\perp$      | _  |          | 1_             | 1        | $\perp$      | ↓_                | _            |
|          | 42   | L            | 1_       | $\perp$      | ╛  |          | 1_             | _        | 1_           | 1_                | <u> </u>     |
|          | 43   | L            |          |              | ╝  |          | L              | $\perp$  | $\perp$      | 1_                |              |
|          | 44   |              | L        | Ĺ            | _[ |          |                |          |              |                   |              |
|          | 45   |              | $\prod$  | $\prod$      | J  |          |                | L        | $\perp$      | L                 |              |
|          | 46   |              | T        | T            | 1  |          |                |          |              |                   |              |
|          | 47   | 1            | 1        | T            | 1  |          |                |          | T            | Т                 | T            |
|          | 48   | $\top$       | 1        | 1            | 7  | -        | T              | 1        | T            | T                 | Т            |
|          | 49   | $\top$       | T        | Ť            | 1  | _        | T              | 1        | Т            | T                 | 1            |
| -        | 1 = 5  | +            | +-       | +-           | -  | _        | +-             | +        | +            | +-                | +            |

| Cla         | Date                       |           |  |          |          |          |                                     |          |              |              |
|-------------|----------------------------|-----------|--|----------|----------|----------|-------------------------------------|----------|--------------|--------------|
|             |                            |           | _  |          |          |          |                                     |          |              |              |
| =           | la                         |           |  |          | l        |          |                                     |          | Ì            |              |
| Final       | Original                   | - 1       |  | ŀ        |          |          | li                                  |          |              |              |
| "           | ਨਿ                         |           |  |          |          |          |                                     |          | .            | 1            |
|             |                            |           |  |          |          |          |                                     |          |              |              |
|             | 51                         |           |  |          |          |          |                                     |          |              |              |
|             | 52                         |           |  | П        | П        | П        |                                     |          |              |              |
|             | 52<br>53                   |           | _  | _        | 1        | 一        |                                     |          |              |              |
| <del></del> | 54                         |           |  |          | $\vdash$ | $\vdash$ | -                                   | _        | -            | -            |
|             | 55                         | -         |  | -        | ⊢        | ┝        | -                                   | _        |              | $\vdash$     |
|             | 55                         |           |  |          |          | ₩        |                                     | _        |              |              |
|             | 56                         |           |  | _        | <u> </u> |          |                                     |          |              | _            |
|             | 57                         |           |  | L_       | L        |          |                                     |          |              |              |
| l           | 58                         | _1        |  |          |          |          |                                     |          |              |              |
|             | 59                         |           |  |          |          |          |                                     |          |              |              |
|             | 60                         |           |  |          | Г        | <u> </u> |                                     |          |              |              |
|             | 61                         |           |  | T        |          | !        |                                     | $\vdash$ |              |              |
| ļ           | 62                         |           |  | $\vdash$ | $\vdash$ | $\vdash$ |                                     | <u> </u> | _            | $\vdash$     |
|             | 62                         |           |  | $\vdash$ | $\vdash$ | ┼        | -                                   | -        | <del> </del> | -            |
| <u> </u>    | 63                         | $\vdash$  |  | $\vdash$ |          | <b>├</b> | _                                   | $\vdash$ | <u> </u>     | -            |
| <u></u>     | 64                         | $\square$ |  | <u> </u> | ļ        | <u> </u> | <u> </u>                            | $\vdash$ | <u> </u>     | <u> </u>     |
| L           | 65                         | Ш         |  | _        | _        | $\perp$  | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | <u> </u> |              | $\sqcup$     |
| L           | 66                         | LÌ        | _  | L        | L        | $\perp$  | L                                   | L        | L            |              |
|             | 67                         |           |  | Ι        |          | Π        |                                     |          |              |              |
|             | 68                         | П         |  |          | T        | 1        |                                     |          |              | П            |
| <b></b>     | 69                         | Н         |  | ╁╌       | T        | T        | ┢                                   | -        | ┢            | $\vdash$     |
| -           | 70                         | Н         |  |          | ╁        | +        | $\vdash$                            | $\vdash$ |              | $\vdash$     |
| -           | 71                         |           |  | ┢        | ┼        | ╁─       | ╁                                   | $\vdash$ | ⊢            | -            |
| -           | 71<br>72<br>73<br>74<br>75 | <u> </u>  |  | ļ.       | -        | -        | ļ                                   | -        | -            | ├            |
|             | /2                         | Ш         |  | ┡        | -        | ┺        |                                     | ╙        | <u> </u>     | ļ            |
|             | 73                         |           |  | _        | 上        |          | L                                   | <u> </u> | <u></u>      | <u> </u>     |
|             | 74                         |           |  | ļ_       | l        |          | į                                   |          |              | L            |
|             | 75                         |           |  | П        |          |          |                                     | Γ        | Γ            |              |
|             | 76<br>77                   |           |  | Τ        |          |          |                                     |          | $\vdash$     |              |
|             | 77                         |           | ┢  | t        | +        | +        | T                                   | T        | T            |              |
| -           | 78                         | H         | ┢  | ┼        | +-       | 1        | +-                                  | -        | ╁╌           | +-           |
| -           | 70                         | ₩         | ⊢  | ╁        | ╁        | ╁        | +                                   | ⊢        | ┢            | ┼            |
| <u> </u>    | 79<br>80                   | ├         | <b>—</b>                                     | +-       | ╁-       | +-       | -                                   | -        | ⊢            | <del> </del> |
|             | 80                         | <u> </u>  | ļ  | ↓_       | ╄        | 4        | 1                                   | ļ        | <u> </u>     | <u> </u>     |
|             | 81                         |           | L_   | _        |          | _        |                                     | ┖        | L            | <u> </u>     |
| L           | 82                         |           |  |          |          |          |                                     | L.,      | l            |              |
|             | 83                         | Г         |  |          |          |          | Γ                                   |          |              |              |
|             | 84                         | Γ         |  |          |          |          | T                                   | Т        |              | П            |
|             | 85                         | T         | T  | 1        | 1        | 1        | †                                   | 1        | T            | 1            |
| <b>—</b>    | 86                         | $\vdash$  | $\vdash$                                     | +        | +-       | +        | +                                   | +        | t            | +-           |
| -           | 87                         | ┼         | ⊢  | +        | +        | +        | ╁                                   | +        | ┼            | +            |
|             | 10/                        | $\vdash$  | ⊢  | +-       | +        | +        | +                                   | +-       | ╂            | ╁            |
|             | 88                         |           | -  |          | +        | +        | +                                   | ╀        | ╀            | ₩            |
|             | 89                         | <u> </u>  | L  | <u> </u> | _        | _        | _                                   | <u> </u> | <del> </del> | ↓            |
|             | 90                         |           | L  | $\perp$  | 1_       | $\perp$  |                                     |          | 1            | 1_           |
| L           | 91                         | $L^{-}$   | Ĺ  | $\perp$  | $\perp$  |          | $\perp$                             | $L^{-}$  |              | $\perp$      |
|             | 92                         | T         |  |          | Т        |          |                                     | Г        | Γ            | Т            |
|             | 93                         | 1         | 1  | †        | $\top$   | $\top$   | T                                   | T        | T            | T            |
| <b>—</b>    | 94                         | ╁         | 1  | +        | +        | +        | $\dagger$                           | +        | †            | +            |
| 1           | 95                         | $\vdash$  | +-   | +        | +        | +        | +-                                  | +        | ╁            | +            |
| <u> </u>    |                            | ┼         | ┼-   | +-       |          | +-       | +-                                  | ┼        | 1-           |              |
|             | 96                         | 1_        | 1-   | +        | 1        | ļ        | 4                                   | ┞        | 1            | <del> </del> |
|             | 97                         |           | $oxed{oldsymbol{oldsymbol{oldsymbol{eta}}}}$ | $\bot$   | $\perp$  | $\perp$  | $\perp$                             | 1        | _            | 1            |
|             | 98                         | L         |  | L        | $\perp$  | $\perp$  | $\perp$                             |          | L            | $\perp$      |
|             | 99                         |           |  |          |          | Γ        |                                     |          |              |              |
|             | 100                        | 1         | 1  | 1        | $\top$   | $\top$   | 1                                   | 1        | 1            | $\top$       |

|              |                   |  |              |              |              |              |          |           | ı            |          |
|--------------|-------------------|--|--------------|--------------|--------------|--------------|----------|-----------|--------------|----------|
| Cla          | aim               |  |              |              | E            | Date         | )        |           |              |          |
| Final        | Original          |  |              |              |              |              |          |           |              |          |
|              | 101               |  |              |              |              |              |          |           |              |          |
|              | 102<br>103        |  |              |              |              |              |          |           |              |          |
|              | 103               | _  |              |              |              |              |          |           |              |          |
|              | 104<br>105        |  | ļ            |              |              |              |          |           |              |          |
|              | 105               | _  | <u> </u>     | ļ            |              |              |          | _         |              | Щ        |
| -            | 106               | _  | L            | -            |              | <u> </u>     |          |           |              | $\vdash$ |
|              | 107<br>108        | -  | H            | -            |              |              |          | _         |              | Н        |
|              | 108               |  |              | ┢            |              | -            |          | -         |              | $\vdash$ |
|              | 110               | $\vdash$   | -            | <del> </del> | $\vdash$     | $\vdash$     | $\vdash$ |           | $\vdash$     | H        |
|              | 111               | <del>                                     </del> | $\vdash$     | ┢            | $\vdash$     | H            |          | -         | $\vdash$     |          |
|              | 112<br>113        |  | m            |              |              |              |          |           |              |          |
|              | 113               |  | T-           | T            |              |              |          |           | Г            |          |
|              | 114               |  |              |              |              |              |          |           |              |          |
|              | 115<br>116        | L  |              |              |              |              |          |           |              | Ц        |
|              | 116               | _  | ╙            | _            |              | <u> </u>     |          | L         |              |          |
|              | 117               | <u> </u>   | ļ            | <u> </u>     | _            | <u> </u>     | <u> </u> | _         | _            | $\sqcup$ |
| <u> </u>     | 118               | <u> </u>   |              | ┞            | <u> </u>     | <del> </del> | <u> </u> | <u> </u>  | ļ            | $\vdash$ |
|              | 119               |  | ├-           | ┼            | ├            |              |          | H         | -            | $\vdash$ |
| -            | 120               | ┢  | ╀            | ┼            | -            | -            | -        | H         | -            | $\vdash$ |
|              | 120<br>121<br>122 | +-   | ╁            | +            | ┝            | -            | -        | ┢╾        | ╁─           | $\dashv$ |
|              | 123               | H  | H            | $\vdash$     | <del> </del> | <del> </del> | H        | H         | İ            | H        |
|              | 123<br>124        | T  | 1            | 1            | T            | 1            | ┪        | 1         | T            | П        |
|              | 125               | T  | T            | 1            | 1            |              |          |           |              |          |
|              | 126               |  |              |              |              |              |          |           |              |          |
|              | 127               |  |              |              |              |              | <u> </u> |           |              |          |
|              | 128<br>129        | ╙  | 1            | _            | _            | <u> </u>     |          |           |              |          |
|              | 129               | <u> </u>   | -            | 1            | <u> </u>     | <del> </del> | Ļ        | ┡         | <del> </del> | <b> </b> |
|              | 130               |  | -            | ∔            | ├-           | ╀            | ⊢        | _         | _            | -        |
|              | 131<br>132        | +-   | -            |              | -            | <del> </del> | ┢        | ⊢         | ╀            | $\vdash$ |
|              | 133               | +-   | ╁            | +-           | +-           | ╁            | ┼        | ├         | ╁            |          |
| <del> </del> | 134               | ╁  | +-           | +-           | ╁╴           | ╁╴           | ┼─       | t         | +            | H        |
| <b> </b>     | 135               | ╁╌   | $\dagger$    | +            |              | t            | ╁╌       | t         |              |          |
|              | 136               | 1  | T            | 十            | 1            | 厂            |          | 1         | 1            | $\top$   |
|              | 137               |  |              |              |              |              |          |           |              |          |
|              | 138               |  | $oxed{oxed}$ |              |              |              |          |           |              |          |
|              | 139               | $\perp$  | 1            | 1            | ┖            | 上            | 1_       | _         | <u> </u>     | ļ        |
|              | 140               |  | _            | 1.           | <u> </u>     | ╄            | <u> </u> | $\perp$   | _            | ļ        |
| <u> </u>     | 141               |  | -            | +            | ╄            | ╄            | -        | -         | $\bot$       | $\vdash$ |
| $\vdash$     | 142               | +  | +            | +            | +-           | +            | ┼        | +         | +            |          |
| _            | 143               | _  | +            | +-           | +-           | +            | ╁        | +         | ╁╌           | +        |
|              | 145               |  | +            | +            | H            | +            | +        | ╁         | +            | +        |
| <u> </u>     | 146               |  | +            | +            | ╁╌           | +            | +        | $\dagger$ | +            | +-       |
|              | 147               |  | $\dagger$    | +            | †            | †            | T        | $\dagger$ | +            | +-       |
|              | 148               |  | T            | 1            | T            |              | 1'''     | 1         | 1            |          |
|              | 149               | Τ  | Ι            | I            | Ι            | I            | L        | L         |              |          |
|              | 150               |  | ľ            |              |              |              | Π        |           | $\prod$      |          |